

## PATENT ABSTRACTS OF JAPAN

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### (54) RADIO BASE STATION APPARATUS

(57)Abstract:

**PROBLEM TO BE SOLVED:** To correct the amplitude deviation and the phase deviation having frequency characteristics occurring between a transmitting and receiving branches in a radio base station apparatus having an array antenna applied to an OFDM communication system.

**SOLUTION:** Correction values for correcting the amplitude deviation and the phase deviation occurring between transmitting and receiving branches in an array antenna radio base station apparatus are detected for every subcarrier of an OFDM signal. The transmission and reception weights are calculated every for subcarrier to correct the weights at every subcarrier using the detected correction values for every subcarrier, thereby correcting the amplitude deviation and the phase deviation having frequency characteristics occurring between the transmitting and receiving branches.

